BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Estimate for Improvements and Asphalting to roads, drains and Construction of Culverts at Deshabandunagar, Puttanjinappa Layout & Krishna Temple area in ward No 09 in Vidyaranyapura sub Division.

				Estimate Cost Rs.					**4500000.00**
Sl No	**Description of item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1 / PWD SR 2014-15**	Cum							
	CC Road								
	Renukamaba Temple area 4th Cross		1	110.00	1.20	0.25	33.00		
	Cross Road 1		1	20.00	1.20	0.35	8.40		
	Cross Road 2		1	50.00	1.20	0.35	21.00		
	Puttanjinappa Layout Passage		1	200.00	2.30	0.35	161.00		
	Asphalt Road Drain Desilting								
	9th Main Seetharamaiah Layout		2	250.00	0.45	0.35	78.75		
	Cross Road 1		2	60.00	0.45	0.35	18.90		
	Cross Road 2		2	40.00	0.45	0.35	12.60		
	Cross Road 3		2	50.00	0.45	0.35	15.75		
	Main Road Yerappa Layout		2	110.00	0.45	0.35	34.65		
	Cross Road 1 & 2		4	50.00	0.45	0.35	31.50		
	Cross Road 3		2	70.00	0.45	0.35	22.05		
	Main Road 2		2	70.00	0.45	0.35	22.05		
	Berm Cutting								
	9th Main Seetharamaiah Layout		2	250.00	1.20	0.25	150.00		
	Cross Road 1		2	60.00	1.20	0.25	36.00		
	Cross Road 2		2	40.00	1.20	0.20	19.20		
	Cross Road 3		2	50.00	1.20	0.20	24.00		
	Main Road Yerappa Layout		2	110.00	1.20	0.25	66.00		
	Cross Road 1 & 2		4	50.00	1.20	0.25	60.00		
	Cross Road 3		2	70.00	1.20	0.20	33.60		
	Main Road 2		2	70.00	1.20	0.20	33.60		
	Culverts		2	6.00	2.00	1.20	28.80		
	RCC Drain		1	55.00	1.00	1.00	55.00		
							965.85	75.60	**73018.00**
	Basic Rate	70.00							
	Area Weightage @8%	5.60							
	Total	**75.60**							
2	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2014-15**	Sqm							
	Asphalt Road		2	250.00		1.35	675.00		
			2	60.00		1.35	162.00		
			2	40.00		1.35	108.00		
			2	50.00		1.35	135.00		
							1080.00	58.32	**62986.00**
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	**58.32**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 2				**1080.00**	75.60	**81648.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
	Renukamaba Temple area 4th Cross		1	110.00	1.50	0.15	24.75		
	Cross Road 1		1	20.00	1.50	0.15	4.50		
	Cross Road 2		1	50.00	1.50	0.15	11.25		
	Puttanjinappa Layout Passage		1	200.00	2.30	0.15	69.00		
	Culverts		2	6.00	1.80	0.15	3.24		
	RCC Drain		1	55.00	0.90	0.15	7.43		
							120.17	4847.04	**582445.00**
	Basic Rate	4488.00							
	Area Weightage @ 8%	359.04							
	Total	**4847.04**							
5	Providing and laying cement concrete using 20mm and down size granite jelly of **ready mixed concrete (RMC)for R.C.C works** laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2014-15**	Cum							
	Renukamaba Temple area 4th Cross		1	110.00	4.50	0.125	61.88		
	Cross Road 1		1	20.00	4.50	0.125	11.25		
	Cross Road 2		1	50.00	4.50	0.125	28.13		
	Puttanjinappa Layout Passage		1	200.00	2.30	0.125	57.50		
							158.75	5847.12	**928230.00**
	Basic Rate	5414.00							
	Area Weightage @ 8%	433.12							
	Total	**5847.12**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **171 / Item No. 22.7 / PWD SR 2014-15**	Sqm							
	Renukamaba Temple area 4th Cross		1	110.00	4.50		495.00		
	Cross Road 1		1	20.00	4.50		90.00		
	Cross Road 2		1	50.00	4.50		225.00		
	Puttanjinappa Layout Passage		1	200.00	2.30		460.00		
							1270.00	97.20	**123444.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
7	Providing **groove cutting** for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator and HOM of machinery including cost of blade coolant etc including cleaning of groove and providing sand and hot bitumne fillars, and filler metal etc., indluding cost of converyance of all materials, labours, lead and lift charges and all other incidental charges as per drawing and as per specification **Concrete Pavement Page No. 172 / Item No. 22.8.1 / PWD SR 2014-15**	Rmt							
	Renukamaba Temple area 4th Cross		11	4.50			49.50		
	Cross Road 1		2	4.50			9.00		
	Cross Road 2		5	4.50			22.50		
	Puttanjinappa Layout Passage		20	2.30			46.00		
							127.00	124.20	**15773.00**
	Basic Rate	115.00							
	Area Weightage @ 8%	9.20							
	Total	**124.20**							
8	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.9 / PWD SR 2014-15**	Cum							
	For Culverts		2x2	6.00	0.60	0.90	12.96		
							12.96	4542.48	**58871.00**
	Basic Rate	4206.00							
	Area Weightage @ 8%	336.48							
	Total	**4542.48**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2014-15**	Sqm							
	For New Drain BEL 2nd Block 3rd Cross		1	120.00	0.60		72.00		
			2	120.00		0.15	36.00		
	Culverts		2	6.00	0.60		7.20		
			2x2	6.00		0.23	5.52		
			2x2	1.80		0.23	1.66		
	For RCC Drain Sidewall		4	55.00		0.60	132.00		
	Covering Bottom		1	55.00	0.60		33.00		
	Covering sides		4	55.00		0.15	33.00		
							320.38	292.68	**93768.00**
	Basic Rate	271.00							
	Area Weightage @8%	21.68							
	Total	**292.68**							
10	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2014-15**	Cum							
	Existing Drain Covering Slab		1	120.00	0.90	0.10	10.80		
	Culverts		2	6.00	1.80	0.23	4.97		
	For RCC Drain		1	55.00	0.90	0.15	7.43		
			2	55.00	0.15	0.60	9.90		
			1	55.00	0.90	0.10	4.95		
							38.04	6065.28	**230741.00**
	Basic Rate	5616.00							
	Area Weightage @8%	449.28							
	Total	**6065.28**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2014-15**	Tonne							
			0.08	38.04			3.04		
							3.04	78351.84	**238459.00**
	Basic Rate	72548.00							
	Area Weightage @8%	5803.84							
	Total	**78351.84**							
12	KSRRB 300-47: scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges complete as per specifications MORTH chapter 3, **No. 143 / Item No. 19.53 / PWD SR 2014-15**	Sqm							
	9th Main Seetharamaiah Layout		2	250.00	1.50		750.00		
	Cross Road 1		2	60.00	1.30		156.00		
	Cross Road 2		2	40.00	1.35		108.00		
	Cross Road 3		2	50.00	1.50		150.00		
	Main Road Yerappa Layout		1	110.00	5.00		550.00		
	Cross Road 1 & 2		2	50.00	5.00		500.00		
	Cross Road 3		1	70.00	4.50		315.00		
	Main Road 2		1	70.00	6.00		420.00		
							2949.00	22.68	**66883.00**
	Basic Rate	21.00							
	Area Weightage @ 8%	1.68							
	Total	**22.68**							
13	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406, **Page No. 154 / Item No. 20.18 / PWD SR 2014-15**	Cum							
	9th Main Seetharamaiah Layout		2	250.00	1.50	0.20	150.00		
	Cross Road 1		2	60.00	1.30	0.20	31.20		
	Cross Road 2		2	40.00	1.35	0.20	21.60		
	Cross Road 3		2	50.00	1.50	0.20	30.00		
	Main Road Yerappa Layout		1	110.00	5.00	0.15	82.50		
	Cross Road 1 & 2		2	50.00	5.00	0.15	75.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Cross Road 3		1	70.00	4.50	0.15	47.25		
	Main Road 2		1	70.00	6.00	0.15	63.00		
							500.55	1438.56	**720071.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	**1438.56**							
14	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.6 / PWD SR 2014-15**	Sqm							
	9th Main Seetharamaiah Layout		1	250.00	6.00		1500.00		
	Cross Road 1		1	60.00	5.00		300.00		
	Cross Road 2		1	40.00	4.50		180.00		
	Cross Road 3		1	50.00	5.00		250.00		
	Main Road Yerappa Layout		1	110.00	5.00		550.00		
	Cross Road 1 & 2		2	50.00	5.00		500.00		
	Cross Road 3		1	70.00	4.50		315.00		
	Main Road 2		1	70.00	6.00		420.00		
							4015.00	31.32	**125750.00**
	Basic Rate	29.00							
	Area Weightage @ 8%	2.32							
	Total	**31.32**							
15	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. **with 100-120 TPH capacityH.M.P with sensor paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen Page No. 159 / Item No. 21.20.2 / PWD SR 2014-15**	Cum							
	9th Main Seetharamaiah Layout		1	250.00	6.00	0.025	37.50		
	Cross Road 1		1	60.00	5.00	0.025	7.50		
	Cross Road 2		1	40.00	4.50	0.025	4.50		
	Cross Road 3		1	50.00	5.00	0.025	6.25		
	Main Road Yerappa Layout		1	110.00	5.00	0.025	13.75		
	Cross Road 1 & 2		2	50.00	5.00	0.025	12.50		
	Cross Road 3		1	70.00	4.50	0.025	7.88		
	Main Road 2		1	70.00	6.00	0.025	10.50		
							100.38		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Depression Filling @ 15%						15.06	8475.84	
							115.43	8500.00	981166.00
	as per Revised Basic Rate	7848.00							
	Area Weightage @ 8%	627.84							
	Total	**8475.84**							
16	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 11.90 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1				965.85	73.57	71057.00
	Average weight of earth 1.28 tonne / kg for 2.00X1.28X2 = 30.46	5.12							
	PWD SR 2014-15 (P.130 / I.17.1) For loading and unloading	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	**73.57**							
17	Sub Total								4454310.00
18	Third Party Inspection Charges @ 1%								44543.00
		L/S							1147.00
								Total	4500000.00

(Rupees Fourty Five Lakhs Only)

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVELY SANCTIONED FOR Rs. 45.00 Lakhs
Rupees Fourty Five Lakhs only
Under P-3089

Technical Sanction
Accorded for 45.00 Lakhs
Head of A/c P3089
CER NO :52 Dt:: 21.8.15

TA CE (YNK).

Forwarded as EE ( ) No 39
Subject to conditions contained in enclosed memo EE ( ) No /9/...
Dt Estimate A/Sanctioned
JC(Y)/BA/A2/34/2015-16
dated 20/8/2015 Rs 45.00 Lakhs

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92.

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE, BYATARAYANAPURA DIVISION

Lead Statement for Srinivaspura Dumping Yard for Ward No. 09, Vidyaranyapura Sub Division.

Lead Distance

1.	From BBMP Sub Division office to Devi Circle	1.50 Kms
2.	From Devi Circle to Thirumala Daba	2.00 Kms
3.	From Thirumala Daba to 3rd Cross SBI Bank	2.00 Kms
4.	From 3rd Cross SBI Bank to Sheshadripuram College	0.50 Kms
5.	From Shesadripuram College to Police Station	0.80 Kms
6.	From Police Station to Kogilu Cross	0.60 Kms
7.	From Kogilu Cross to Srinivasapura	4.00 Kms
8.	From Srinivasapura to Dumping Yard	0.50 Kms
	Total	**11.90 Kms**

Certificate:

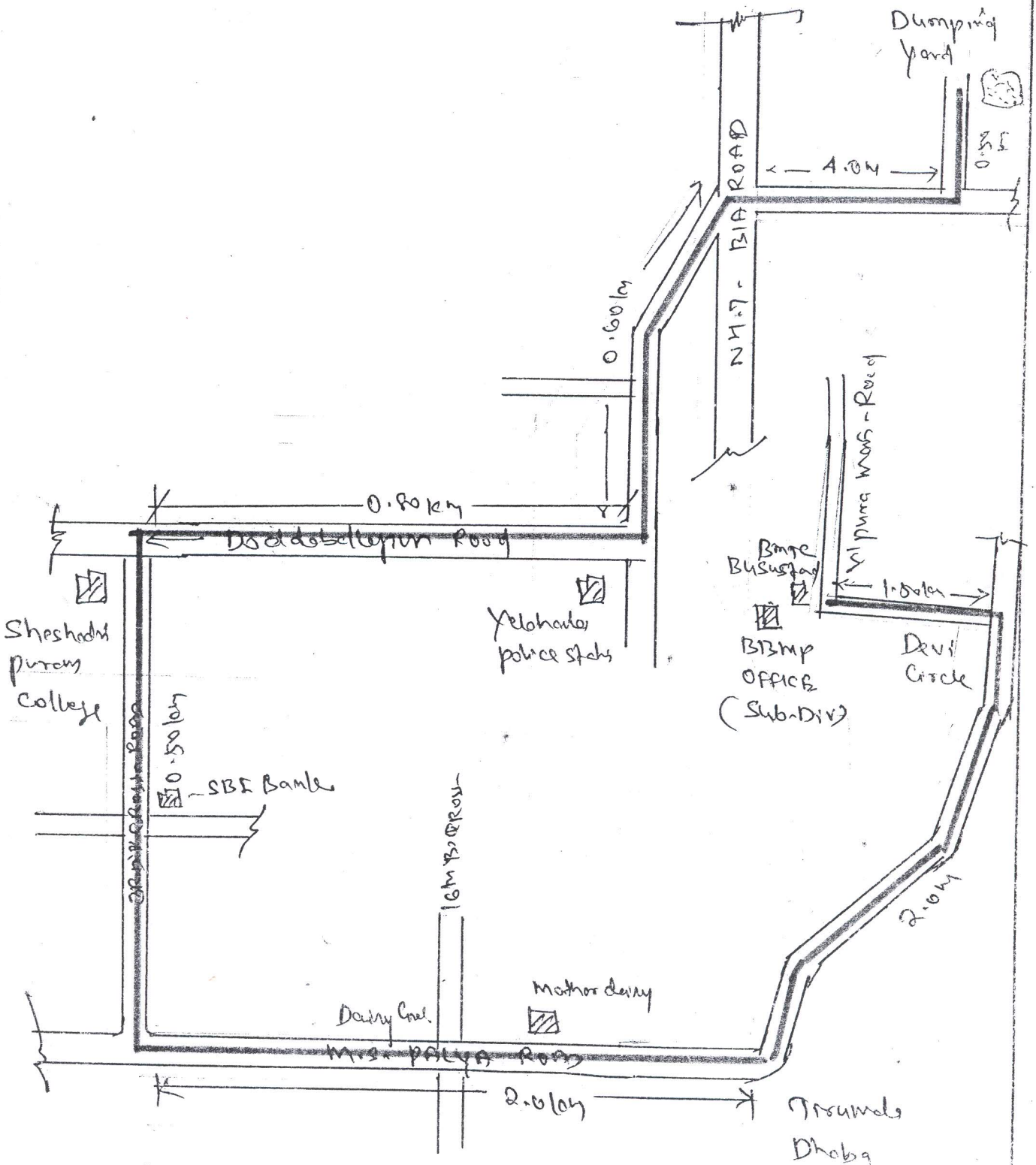
1. Certified that the Srinivasapura Dumping Yard us the approved dumping yard for ward no. 09 BBMP
2. BBMP Sub Division office Vidyaranyapura is taken as the centre place for calculating the lead distance for ward no. 09.
3. The above distance is the shortest distance for calculating the lead.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Executive Engineer
Byatarayanapura Division

LOAD CHART FOR DUMPING-YARD FOR WARD NO



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97